

TCAP Achievement, Grade 4, Science
Criterion Referenced Test (CRT) Reporting Categories with State Performance Indicators (SPI)

| Structure and Function of Organisms | |
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| SPI# | State Performance Indicator |
| 4.1.1 | Identify the function of specific plant and animal parts. |
| 4.1.2 | Recognize the basic structure of plant and animal cells. |
| 4.1.3 | Identify animal and plant cell structures and function. |
| 4.3.1 | Match the edible parts of plants with particular plant structures. |
| 4.3.2 | Compare how various animals obtain and use food for energy. |
| 4.3.3 | Match the animal with their means of obtaining oxygen. |
| Ecology | |
| SPI# | State Performance Indicator |
| 4.2.1 | Select plants and animals found in a specific environment. |
| 4.2.2 | Recognize how plants and animals interact with each other in their environment. |
| 4.2.3 | Identify ways that organisms affect their environment. |
| 4.5.1 | Match a plant or animal adaptation to a particular environmental condition. |
| 4.5.2 | Compare and contrast groups of organisms according to their major characteristics. |
| 4.5.3 | Match the form of structures found in living things to its function. |
| Life Cycles and Biological Change | |
| SPI# | State Performance Indicator |
| 4.4.1 | Distinguish offspring from the parent. |
| 4.4.2 | Recognize the relationship between reproduction and the survival of a species. |
| 4.4.3 | Select the illustration that depicts the life cycle of a specific organism. |
| 4.6.1 | Match fossil evidence with organisms that are alive today. |
| 4.6.2 | Identify animal and plant populations as thriving, threatened, endangered, or extinct. |
| 4.6.3 | Infer possible causes of extinction. |
| Space, Weather, and Climate | |
| SPI# | State Performance Indicator |
| 4.7.1 | Determine the order of the planets according to their distance from the sun. |
| 4.7.2 | Identify the phases of the moon in the correct sequence. |
| 4.7.3 | Recognize that the length and position of a shadow is related to the location of the sun. |
| 4.8.1 | Identify the cloud type(s) associated with specific weather conditions. |
| 4.8.2 | Choose the appropriate instrument for measuring a given atmospheric condition. |
| 4.8.3 | Identify the basic features of the water cycle. |
| Earth's Features and Resources | |
| SPI# | State Performance Indicator |
| 4.9.1 | Recognize specific geological features. |
| 4.9.2 | Determine how wind and water change the Earth's geological features. |
| 4.9.3 | Identify the layers of the Earth. |
| 4.10.1 | Choose the appropriate use for an earth material. |
| 4.10.2 | Identify the basic characteristics of soil. |
| 4.10.3 | Distinguish between renewable and nonrenewable resources. |
| Motion and Forces, Forms of Energy | |
| SPI# | State Performance Indicator |
| 4.11.1 | Select factors that have the greatest effect on the motion of an object. |
| 4.11.2 | Recognize the effects of gravity. |
| 4.11.3 | Recognize simple machines (i.e., inclined plane, lever, pulley) |
| 4.11.4 | Determine how speed affects distance traveled over time. |
| 4.14.1 | Identify different forms of energy. |
| 4.14.2 | Distinguish between the volume and pitch of sound. |
| 4.14.3 | Recognize that various materials conduct heat. |
| 4.14.4 | Select a simple electrical circuit. |

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| Matter | |
|---------------|---|
| SPI# | |
| 4.12.1 | Select an object according to its observable physical properties. |
| 4.12.2 | Identify states of matter. |
| 4.12.3 | Determine how various types of matter change state. |
| 4.13.1 | Choose features associated with physical changes |
| 4.13.2 | Identify characteristics of different types of mixtures. |
| 4.13.3 | Determine methods for separating mixtures. |

SPI# -- Grade Level. Content Standard Number. Performance Indicator Number

Please refer questions about this list to the Tennessee Department of Education, Evaluation and Assessment. 01/08/04